



Water-Data Report CA-2005

11237000 BIG CREEK BELOW HUNTINGTON LAKE, CA

San Joaquin River Basin

LOCATION.--Lat 37°13'17", long 119°12'42" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.23, T.8 S., R.25 E., Fresno County, Hydrologic Unit 18040006, in Sierra National Forest, on right bank, 800 ft upstream from Grouse Creek, 1.0 mi south of main dam of Huntington Lake, and 2.1 mi northeast of town of Big Creek.

DRAINAGE AREA.--81.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1925 to September 1970, October 1986 to current year.

WATER TEMPERATURE: Water years 1961-70.

REVISED RECORDS.--WSP 1315-A: 1943(M). WSP 1635: 1925-29. WSP 1930: Drainage area.

GAGE.--Water-stage recorder and Parshall flume. Elevation of gage is 6,630 ft above NGVD of 1929, from topographic map. Prior to Oct. 1, 1942, at datum 1.00 ft lower and Oct. 1, 1942, to Sept. 30, 1948, at datum 1.00 ft higher.

REMARKS.--Flow regulated by Huntington Lake (station 11236000). Diversions to Big Creek Powerplant No. 1 (station 11238100) and Eastwood Powerplant (station 11238250) bypass this station. See schematic diagram of lower San Joaquin River Basin.

COOPERATION.—Records, including diversion to Big Creek Powerplant No. 1, were collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2175.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,040 ft³/s, June 23, 1925, gage height, 11.3 ft, present datum; minimum daily, 0.1 ft³/s, many days in 1931.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.4	3.3	2.5	1.7	2.3	2.2	3.2	5.4	9.9	7.3	6.0	5.6
2	5.5	3.3	2.4	1.7	2.3	2.2	3.2	5.9	9.7	8.0	6.1	5.5
3	5.5	3.3	2.4	1.7	2.2	2.2	3.2	6.3	9.2	7.9	5.8	5.4
4	5.5	3.3	2.3	1.7	2.2	2.3	3.1	6.2	8.8	7.6	5.6	5.4
5	5.5	3.2	2.3	1.6	2.2	2.2	3.2	9.4	8.2	7.2	5.5	5.3
6	5.5	3.2	2.5	1.6	2.2	2.3	3.5	9.0	7.8	7.0	5.6	5.3
7	5.6	3.2	3.2	1.6	2.2	2.4	3.5	8.2	8.1	7.0	5.7	5.2
8	5.7	3.3	3.2	1.7	2.2	2.5	3.3	8.1	9.0	7.0	5.6	5.1
9	5.8	3.2	3.1	2.1	2.1	2.7	3.2	12	8.7	7.1	5.5	5.0
10	5.9	3.2	3.1	2.4	2.1	2.9	3.1	9.5	8.3	7.1	5.6	5.1
11	5.9	3.3	3.1	2.2	2.2	3.1	3.3	9.0	8.4	7.1	5.7	5.4
12	5.8	3.2	3.0	2.0	2.3	3.3	3.4	8.9	8.7	7.0	5.5	5.6
13	5.5	3.2	3.0	1.9	2.4	3.4	3.4	9.6	8.8	6.7	5.5	5.7
14	5.3	3.1	3.0	1.9	2.4	3.4	3.3	10	8.8	6.5	5.8	5.6
15	5.2	3.1	2.9	1.9	2.5	3.3	3.6	11	8.7	6.5	6.3	5.5
16	5.1	3.1	2.5	1.9	2.7	3.2	4.0	22	8.3	6.6	6.0	5.4
17	5.6	3.1	2.0	2.0	2.7	3.1	4.5	16	7.5	6.4	6.0	5.2
18	5.1	3.0	2.0	2.1	2.6	3.1	4.7	14	7.1	6.4	6.4	5.1
19	5.6	2.9	2.0	2.1	2.5	3.2	4.5	14	7.1	6.3	5.9	5.0
20	5.2	2.8	1.9	2.1	2.4	3.2	4.2	14	6.7	6.2	5.6	4.9
21	3.7	2.8	1.9	2.1	2.4	3.2	4.4	13	6.1	6.2	5.5	4.7
22	3.6	2.8	1.9	2.1	2.3	4.0	4.4	14	5.6	6.2	5.6	4.3
23	3.5	2.7	1.8	2.2	2.3	4.0	4.4	14	5.6	6.0	5.6	3.9
24	3.5	2.7	1.8	2.2	2.3	3.5	4.5	13	5.6	5.8	5.5	3.9
25	3.6	2.7	1.8	2.3	2.3	3.3	4.5	14	5.7	5.8	5.5	3.9
26	3.5	2.6	1.8	2.6	2.2	3.2	4.7	13	5.9	5.8	5.5	3.9
27	3.4	2.7	1.8	2.5	2.2	3.3	4.9	13	6.2	5.9	5.4	3.9
28	3.3	2.6	1.8	2.4	2.2	3.2	4.9	12	6.3	5.8	5.5	3.9
29	3.4	2.5	1.7	2.3	---	3.1	4.9	12	6.6	5.8	5.6	3.9
30	3.4	2.5	1.7	2.3	---	3.0	5.0	11	7.0	5.6	5.7	3.8
31	3.3	---	1.9	2.3	---	3.0	---	10	---	5.7	5.6	---
Total	148.4	89.9	72.3	63.2	64.9	93.0	118.0	347.5	228.4	203.5	176.7	146.4
Mean	4.79	3.00	2.33	2.04	2.32	3.00	3.93	11.2	7.61	6.56	5.70	4.88
Max	5.9	3.3	3.2	2.6	2.7	4.0	5.0	22	9.9	8.0	6.4	5.7
Min	3.3	2.5	1.7	1.6	2.1	2.2	3.1	5.4	5.6	5.6	5.4	3.8
Ac-ft	294	178	143	125	129	184	234	689	453	404	350	290
Diversion, in acre-feet, to Big Creek Powerplant No. 1												
	14,140	21,470	17,730	7,330	109	20,410	41,700	42,750	40,600	39,190	25,930	21,830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.66	1.63	1.63	1.44	1.43	1.80	2.85	8.84	8.81	9.64	2.29	1.83
Max	4.79	4.55	4.70	6.45	3.53	5.90	7.09	297	242	293	8.34	5.24
(WY)	(1994)	(1994)	(1956)	(1997)	(1995)	(1995)	(1995)	(1926)	(1926)	(1925)	(1969)	(2003)
Min	0.16	0.23	0.18	0.20	0.30	0.38	0.47	0.46	0.43	0.31	0.16	0.12
(WY)	(1932)	(1932)	(1932)	(1932)	(1931)	(1948)	(1934)	(1934)	(1931)	(1931)	(1931)	(1931)

11237000 BIG CREEK BELOW HUNTINGTON LAKE, CA—Continued**SUMMARY STATISTICS**

	Calendar Year 2004	Water Year 2005	Water Years 1925 - 2005
Annual total	1,256.4	1,752.2	
Annual mean	3.43	4.80	3.29
Highest annual mean			45.9
Lowest annual mean			0.35
Highest daily mean	7.2	May 28	1,160 May 23, 1926
Lowest daily mean	1.4	Jan 29	0.10 Jan 18, 1931
Annual seven-day minimum	1.4	Feb 6	0.10 Aug 21, 1931
Maximum peak flow		38	2,040 Jun 23, 1925
Maximum peak stage		3.13	11.30 Jun 23, 1925
Annual runoff (ac-ft)	2,490	3,480	2,380
Total diversion (ac-ft)^a	214,200	293,200	
10 percent exceeds	5.2	8.3	4.6
50 percent exceeds	3.0	3.9	1.8
90 percent exceeds	1.6	2.1	0.40

^a Diversion, in acre-feet, to Big Creek Powerplant No. 1.

